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(54) **Method and arrangement for dynamically allocating time slots to connections in a digital mobile radio system.**

(57) The present invention relates to a cellular mobile radio system. Each cell includes a base station, a plurality of mobile stations and radio channels, for transmitted digital information between the base station and the mobile stations. More precisely the invention concern a method and an arrangement for dynamically allocating time slots to connections on the radio channels, in order to increase the capacity on the radio channels. The maximum number of simultaneous connections on the radio channels will be more than the available number of time slots per frame.

When there are more connections established on a first and a second radio channel than time slots per frame, the connections share the available time slots in accordance with a determined multiframe time slot allocation scheme known to the base station and the mobile stations.

The base station is selecting one of the time slot allocation schemes in dependence on the speech activity on the two radio channels. Information on the multiframe time slot allocation scheme selected, is transmitted on the first radio channel, to the mobile stations, during guard spaces.

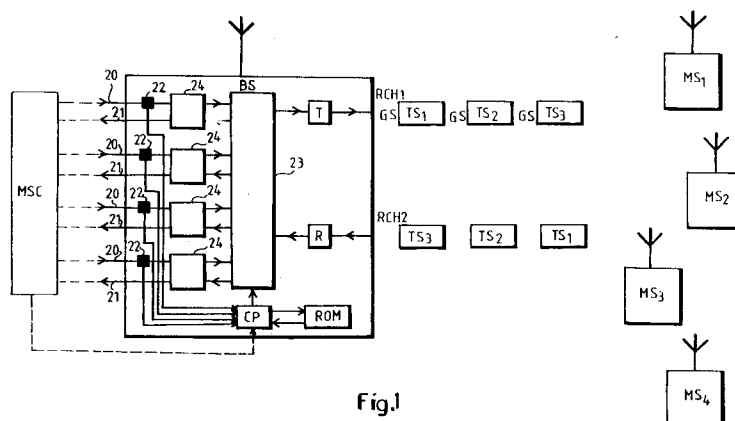


Fig.1

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EUROPEAN SEARCH REPORT

Application Number

EP 90 85 0186

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	US-A-3 848 093 (EDSTROM) * column 3, line 4 - line 26 * * column 3, line 49 - line 57 * * column 3, line 64 - column 4, line 57 * * column 5, line 27 - line 57 * * figures 1,3-5,7 * ---	1-4, 6	H04J3/16
A	EP-A-0 210 698 (PHILIPS) * column 3, line 43 - line 53 * * column 4, line 9 - line 22 * * figure 1 * -----	1,2,6	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H04J H04Q H04B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26 MAY 1992	Examiner PIEPER T.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			